1998228337 MEDLINE
DN 98228337 PubMed ID: 9560448
TI Store depletion triggers the calcium release-activated calcium current (ICRAC) in macrovascular endothelial cells: a comparison with Jurkat and embryonic kidney cell lines.
AU Fasolato C; Nilius B
CS Dipartimento di Scienze Biomediche Sperimentali, CNR Centro di Studio delle Biomembrane, Universita di Padova, Via G. Colombo 3, I-35121 Padua, Italy.
SO PFLUGERS ARCHIV. EUROPEAN JOURNAL OF PHYSIOLOGY, (1998 Jun) 436 (1) 69-74.
Journal code: 0154720. ISSN: 0031-6768.
CY GERMANY: Germany, Federal Republic of
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Priority Journals
EM 199806
ED Entered STN: 19980625
Last Updated on STN: 19980625
Entered Medline: 19980618
AB In endothelial cells, different types of Ca2+ conductances have been described, but none of them has been clearly identified as ICRAC, the Ca2+
release-activated Ca2+ current originally described in mast and lymphoma cells. Here we show that in bovine pulmonary artery endothelial cells (CPAE) depletion of intracellular Ca2+ stores by inositol 1,4,5-trisphosphate (InsP3), Ca2+ ionophores and Ca2+ pump inhibitors activates a Ca2+-selective conductance in the presence of the Ca2+ chelator 1,2-bis(2-aminophenoxy)ethane-N,N,N', N'-tetraacetic acid (BAPTA). The current shows inward rectification, a highly positive reversal potential and is blocked by micromolar concentrations of La3+. The conditions used in studies of endothelial cells were also employed in those of HEK-293, an **embryonic** kidney cell line commonly used to express putative store-operated channels, and Jurkat cells, the **reference cell** model. Similar to CPAE, HEK cells also have an ICRAC-like current. At 0 mV

(FILE 'HOME' ENTERED AT 08:44:44 ON 12 JUN 2002)

FILE 'MEDLINE, BIOSIS, CAPLUS, EMBASE' ENTERED AT 08:44:57 ON 12 JUN 2002

L1	728	S REFERENCE (W) CELL?
L2	11	S L1 (P)EMBRYO?
L3	0	S L2 (P)(ADVANTAG? OR USEFUL? OR PREFERR?)
L4	5	DUPLICATE REMOVE L2 (6 DUPLICATES REMOVED)